



AMG-15

TSTCore Update

9 October 1996



Topics

- **Events Calendar**
- **Service/Joint Staff Transition Activities**
- **I/ITSEC and HLA**
- **Supporting Software Development**
- **Security**
- **HLA Analytic Efforts**
- **Testing**
- **Capitalizing on Protofederation Experiences**
- **C2/HLA Experimentation**
- **AMG Schedule**



Events Calendar

- 21-22 Aug 96 **AMG-14**
- 10 Sept 96 **Kaminski Letter**
- 16-20 Sept 96 **15th DIS Workshop**
- 24 Sept 96 **GTRI Annual M&S Course**
- 27 Sept 96 **Army Science Board HLA Brief**
- 27 Sept 96 **JSIMS DA/EA JTFp Demo**
- 2 Oct 96 **NAS R&D Panel (FAA/NASA)**
- 7 Oct 96 **SCS Symposium, Huntsville**
- 9-10 Oct 96 **AMG-15**
- 1 Dec 96 **Alpha release of OM Development Tools**
- 2-6 Dec 96 **I/ITSEC**
- 16 Dec 96 **RTI F.0 Release**
- 17-18 Dec 96 **AMG-16**
- 11-12 Feb 97 **AMG-17**
- 25-26 Feb 97 **MORS Mini-Symposium**
- March 97 **DIS++ Conference**



I/ITSEC HLA Plans



- **Tutorial on Common Technical Framework, with an emphasis on HLA**
- **HLA demonstration at DMSO booth**
 - RTI 1.0 IPT: VTC, SAIC, MITRE**
 - RTI F.0, installation and operation
 - Test federates and demo applications
 - HLA federation demonstrations using ModSAF and Eagle
- **Other HLA demonstrations in government and industry booths**
 - Coordinate HLA demonstrations with Tom Stark

Good opportunity for information exchange



Service/Joint Staff Transition Activities

- The Service Modeling and Simulation Management Offices, the Joint Staff and DMSO have been actively working together to support HLA transition
- Each organization is forming their own 'tiger team' to support information exchange and technical and programmatic planning within their own organization
 - AMG member programs are key assets to these teams
- DMSO, and our supporting organizations, have been working with the management offices and, increasingly, the Service internal teams to support HLA transition



Supporting Software Development

- **RTI 1.0 development is underway**
 - C++ API is on the DMSO homepage
 - F.0 scheduled for release on 16 December
 - On-line order form on DMSO homepage
 - Work underway to allow international release
- **RTI 2.0 procurement in progress**
- **Object model development tools slated for alpha release to AMG programs on 1 December**
- **MSRR HLA OM Repository to be on-line by 1 December**
- **Development of automated test support tools initiated**
- **Release of experimental version of ModSAF (developed by SAIC as part of JPSPD HLA experiment and the F.0 testing) under discussion with STRICOM**



Testing



- **IF Spec and OMT test procedures have been updated to the 1.0 specification**
- **Compliance checklist has been updated to 1.0 specifications**
- **Available in HLA Technical Library on DMSO homepage**
- **GTRI is developing automated test support tools**
 - **Specification and Description Language (SDL) software to support Interface Test Tool:**
 - **Formal description of RTI and Test Federation produces “validated” test system for Federates/Federations Under Test (FUT)**
- **Test conduct to be done in cooperation with the Services and Agencies responsible for transitioning their simulations to HLA**



HLA Analytic Efforts



- **Performance modeling work continues (Mystech)**
 - DIS Workshop paper describes current capabilities
 - Next step is RTI modeling; focus on F.0
- **O/O analysis of process model underway (AEgis)**
 - Provide a assessment of consistency and completeness; new view into process
- **Formal Description of HLA IFSpec (CMU/SEI)**
 - David Garlan, CMU, has developed an architecture specification language, Wright
 - Initial analysis of IFSpec V.2
 - Plan to prepare a formal description of 1.0
 - Vehicle to assess and improve specification of the HLA

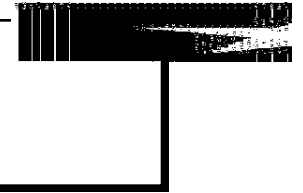


Security

- **TIS presentation at DIS-15 Security Group on the HLA Security Architecture, with a focus on the mid-term guarded approach**
- **Meeting held with NSA at DMSO (September 12) to discuss HLA status, current security approach, and to initiate cooperative activity**
 - **NSA has agreed to work cooperatively to assist in the identification and certification of guard technology**
- **TIS is continuing development of security architecture**
 - **Document to be completed by December**



Capitalizing on Protofederation Experiences



- **Protofederation presentations at the DIS Workshop were found to be very useful in conveying concepts and opportunities for HLA**
- **Protofederation final reports will be posted on the web for broad and easy access**
 - Includes federate profiles
- **TST visits to protofederations are scheduled for 16-17 and 28-29 October with a focus on lessons learned for transition**
- **Follow-up activities (case studies, reusable software opportunities) are being initiated**



C2/HLA Experimentation



- **Use of HLA to support interfaces to C4I is a high priority, both generally and for JSIMS**
- **Another DMSO effort, MRCl, is investigating the development of reusable software to support interfaces between C4I systems and the HLA**
- **Initiating experimentation with C2 in an HLA environment in the JSIMS testbed using MRCl linked to C2 systems and the federates developed/adapted under the JTFp**



Future AMG Dates

•The following dates are set for continuation of the AMG meetings during the two-year HLA transition period:

•

◦ AMG-15	9-10 Oct 96
◦ AMG-16	17-18 Dec 96 *
◦ AMG-17	12-13 Feb 97
◦ AMG-18	9-10 Apr 97
◦ AMG-19	18-19 Jun 97
◦ AMG-20	13-14 Aug 97
◦ AMG-21	8-9 Oct 97
◦ AMG-22	10-11 Dec 97
◦ AMG-23	11-12 Feb 98
◦ AMG-24	8-9 Apr 98
◦ AMG-25	10-11 Jun 98
◦ AMG-26	12-13 Aug 98

* These dates changed from original announcement at AMG-14.